

1 **ABSTRACT OF THE DISCLOSURE UNDER 37 C.F.R. §1.72(b)**

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3 A digital television autoprogramming and tuning method and apparatus. In
4 a digital television which can tune both MPEG 2 and PSIP format signals, a method
5 of tuning uses one or more tables of information populated during an
6 autoprogramming process. For MPEG 2 channels, the physical channel equals the
7 major channel number and can be directly tuned. For PSIP channels, the major
8 channel indexes a TSID which is used to determine a physical channel. If the TSID,
9 does not correspond to the correct program, the correct TSID is determined from
10 the Program Specific Information in the data transport stream 134 and the system
11 re-tunes to the correct physical channel. The autoprogramming process
12 sequentially steps through each physical channel and populates the
13 autoprogramming tables with information about each channel it finds, saving only
14 a single TSID for a given major PSIP channel.